

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946087

Luminaire Tested: **GALN-SB1D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9390 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

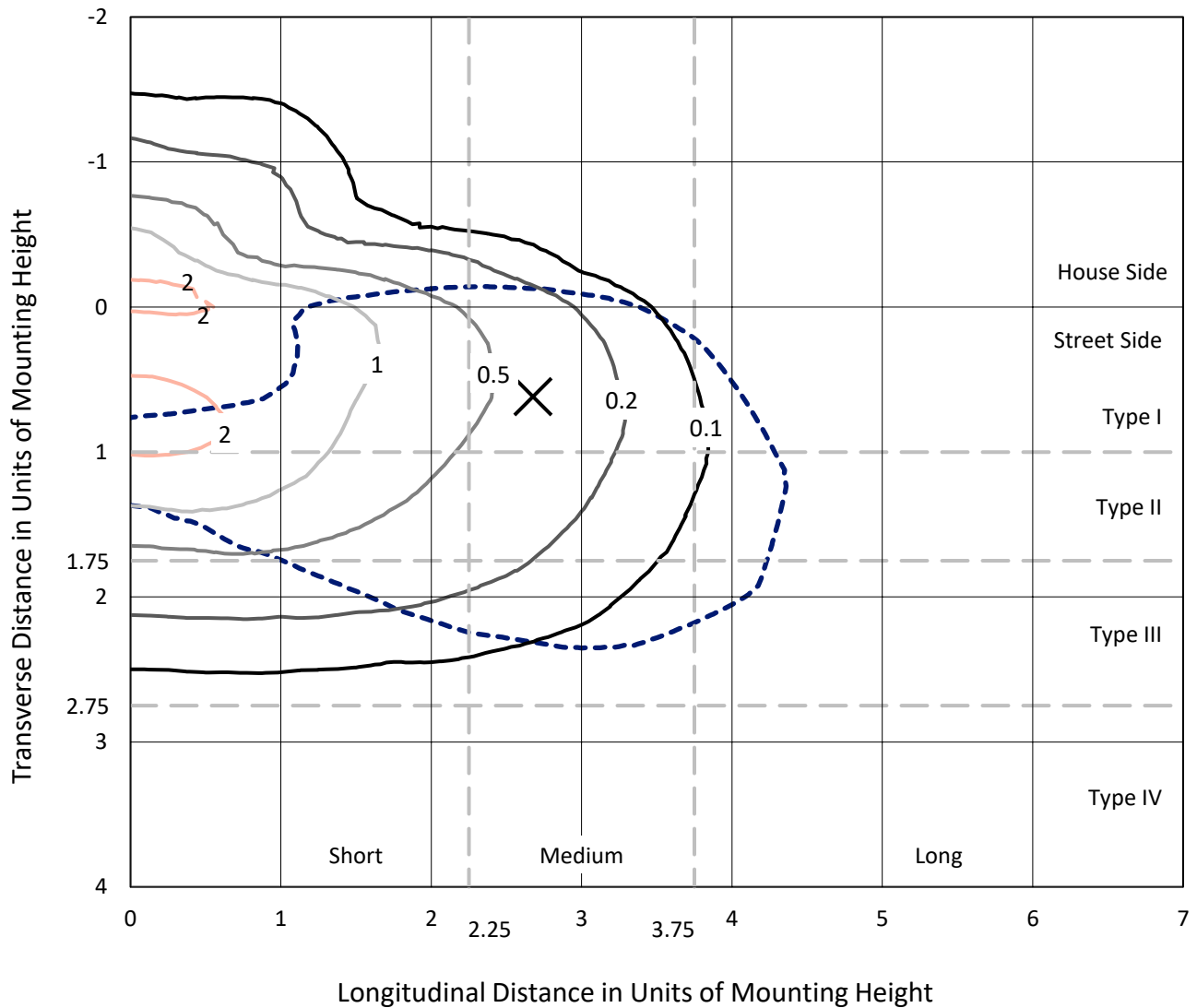
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

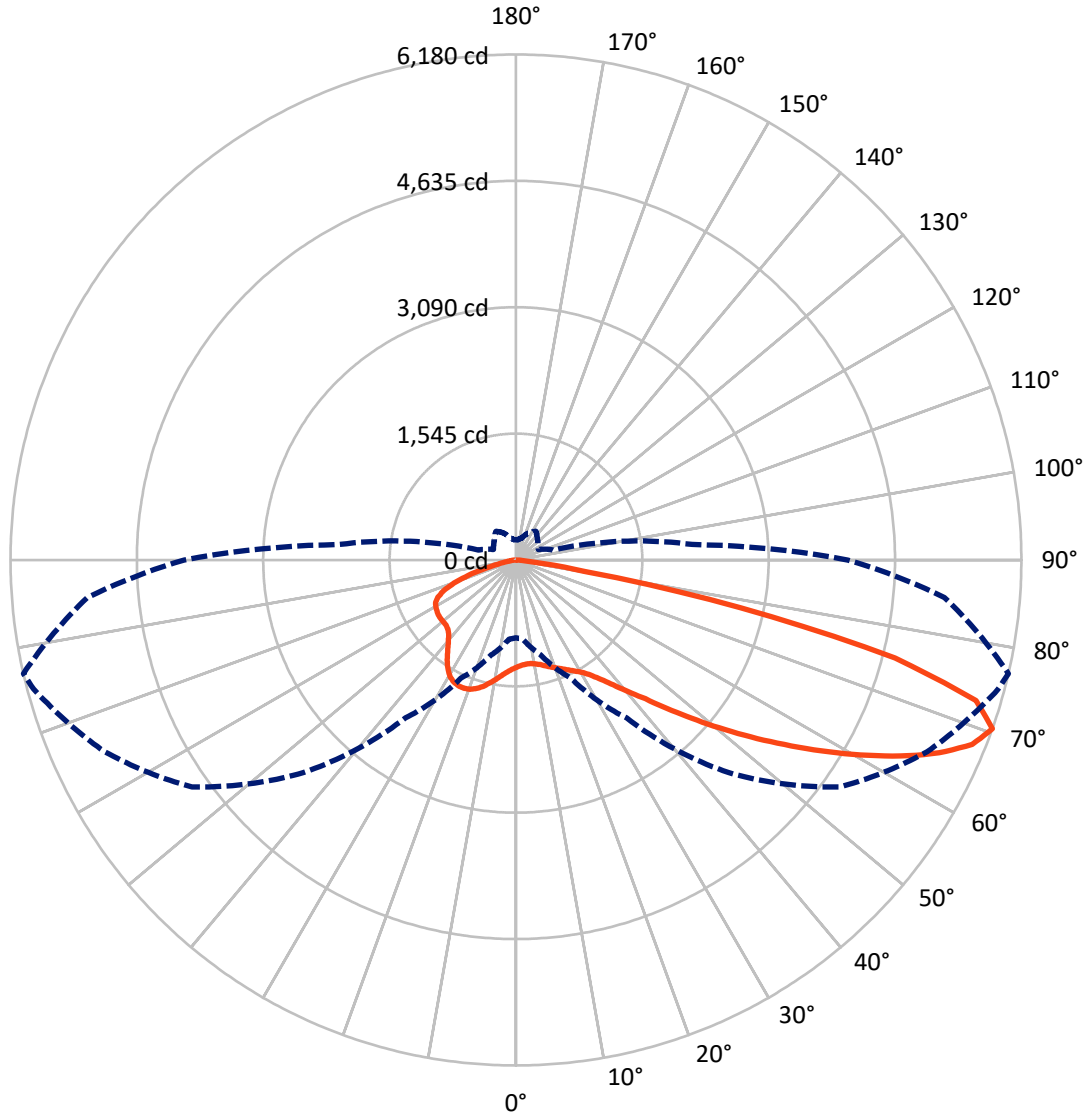
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.3	0.0	2056.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7333.7	0.0	7333.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	9390.0	0.0	9390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.3
10°-20°	360.6	3.8
20°-30°	616.6	6.6
30°-40°	991.6	10.6
40°-50°	1548.2	16.5
50°-60°	2068.0	22.0
60°-70°	2204.2	23.5
70°-80°	1356.9	14.5
80°-90°	118.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9390.0	100.0
0°-180°	9390.0	100.0

Coefficient of Utilization



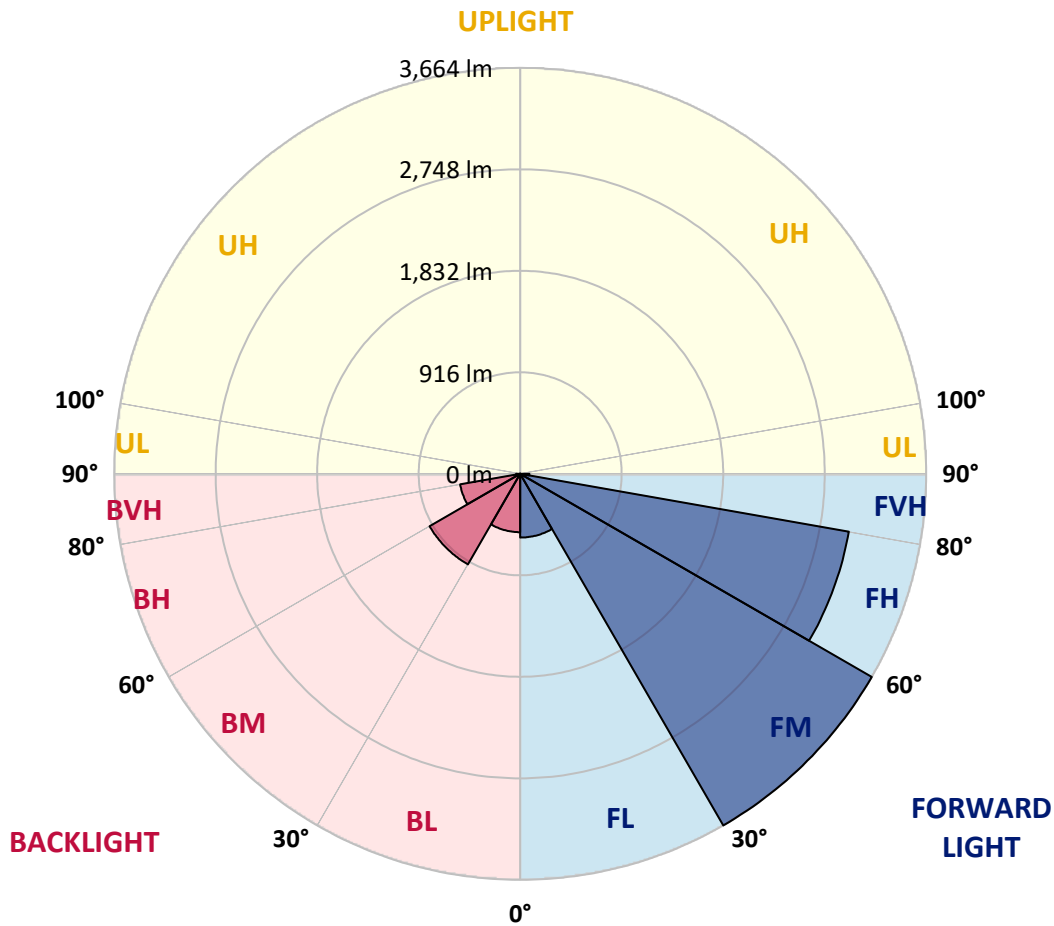
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.3	6.1			
FM (30°-60°)	3663.8	39.0			
FH (60°-80°)	3011.5	32.1			G2/5000
FVH (80°-90°)	83.1	0.9			G1/100
BL (0°-30°)	526.9	5.6	B2/1000		
BM (30°-60°)	944.1	10.1	B1/1000		
BH (60°-80°)	549.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	35.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1207.6	1207.1	1213.3	1215.3	1226.8	1235.0	1250.4	1266.7	1287.9	1290.3
5°	1137.8	1137.8	1145.0	1152.7	1167.6	1184.0	1207.6	1235.9	1272.5	1278.3
7.5°	1078.7	1082.5	1088.8	1103.7	1121.0	1144.6	1180.6	1221.0	1269.1	1278.3
10°	1031.1	1035.4	1043.1	1055.1	1081.1	1113.8	1160.9	1212.8	1277.3	1291.7
12.5°	1016.2	1020.5	1024.8	1034.0	1058.0	1096.5	1152.7	1216.7	1297.0	1311.4
15°	1050.8	1056.1	1052.7	1050.3	1062.8	1097.9	1156.6	1230.6	1321.5	1342.2
17.5°	1130.6	1132.5	1124.8	1102.2	1100.3	1119.1	1174.9	1249.9	1352.3	1374.9
20°	1259.5	1256.1	1240.3	1195.5	1170.0	1166.2	1206.1	1278.7	1384.1	1408.1
22.5°	1434.5	1430.7	1399.0	1328.3	1271.5	1234.0	1251.3	1316.2	1419.6	1446.6
25°	1652.9	1647.6	1600.9	1504.8	1416.8	1323.9	1312.9	1365.8	1463.4	1488.4
27.5°	1907.8	1903.4	1852.9	1726.0	1599.0	1447.0	1389.3	1424.0	1509.1	1537.5
30°	2181.9	2194.4	2104.9	1968.4	1807.7	1607.7	1492.3	1495.6	1568.2	1593.7
32.5°	2504.1	2525.7	2418.0	2244.9	2025.6	1782.2	1622.1	1595.6	1654.3	1675.5
35°	2823.4	2847.9	2758.5	2567.1	2314.6	1988.1	1757.7	1710.6	1768.8	1791.9
37.5°	3099.4	3132.1	3086.0	2919.6	2623.8	2236.2	1934.7	1845.7	1909.7	1938.5
40°	3317.3	3367.3	3363.9	3260.1	2988.4	2537.3	2159.3	2012.6	2084.7	2116.0
42.5°	3494.3	3537.6	3575.1	3569.8	3368.8	2879.2	2423.3	2229.5	2284.3	2320.4
45°	3616.4	3662.6	3743.4	3830.4	3734.7	3245.2	2725.8	2486.8	2536.8	2591.1
47.5°	3725.6	3778.0	3882.8	4020.9	4045.4	3612.6	3057.1	2786.4	2832.1	2888.3
50°	3735.2	3780.4	3943.0	4138.7	4266.1	3965.6	3413.0	3122.5	3165.3	3225.4
52.5°	3502.9	3574.1	3857.8	4135.3	4367.6	4260.8	3766.5	3472.1	3520.2	3592.4
55°	2719.0	2823.4	3608.2	4006.4	4331.5	4451.8	4102.6	3843.9	3905.4	3980.9
57.5°	2342.0	2387.7	2864.3	3771.8	4167.1	4501.3	4386.4	4219.5	4318.5	4401.3
60°	2104.9	2142.9	2424.7	3406.7	3950.7	4422.9	4605.6	4569.6	4740.8	4839.4
62.5°	1851.0	1887.1	2143.4	2844.6	3673.6	4292.6	4744.1	4892.7	5173.6	5281.3
65°	1599.0	1629.8	1875.5	2390.1	3321.6	4162.3	4815.8	5172.2	5574.2	5685.8
67.5°	1318.2	1343.7	1575.9	2016.4	2893.6	3983.8	4851.4	5391.9	5922.9	6018.6
70°	951.2	971.0	1210.9	1594.7	2356.4	3677.0	4837.0	5547.7	6103.7	6180.1
72.5°	449.6	467.4	749.3	1035.4	1664.4	3079.7	4545.1	5424.2	5920.0	5882.0
75°	240.0	255.4	430.4	568.0	879.1	2111.2	3719.3	4672.5	4971.1	4786.5
77.5°	162.5	174.6	266.4	341.0	401.6	1002.2	2390.6	3235.1	3112.4	2807.5
80°	128.9	141.4	218.3	230.8	194.3	362.1	987.8	1497.5	1075.8	860.3
82.5°	99.1	113.0	183.7	167.4	105.8	148.6	287.6	473.7	275.6	209.7
85°	60.6	75.5	144.3	106.8	59.6	67.8	97.6	131.8	84.2	70.2
87.5°	30.8	43.3	73.1	39.0	26.9	15.9	26.0	26.0	22.1	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1310.0	0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
1303.3	2.5°	1314.8	1324.4	1340.8	1356.2	1368.2	1379.7	1391.3	1397.5	1399.4	1407.1
1310.5	5°	1330.2	1348.0	1379.7	1409.5	1428.3	1439.8	1448.0	1452.8	1453.8	1456.2
1330.2	7.5°	1358.6	1386.9	1431.2	1461.0	1474.9	1474.0	1470.6	1458.6	1453.8	1449.5
1359.0	10°	1398.5	1436.0	1490.3	1511.0	1502.4	1479.3	1449.5	1414.3	1398.0	1382.1
1398.5	12.5°	1448.0	1495.6	1549.0	1548.0	1505.2	1446.1	1376.8	1323.0	1288.8	1264.3
1447.0	15°	1508.1	1562.9	1603.8	1571.1	1477.3	1371.1	1269.6	1199.4	1168.6	1141.7
1496.1	17.5°	1570.2	1628.8	1647.6	1563.9	1407.1	1260.0	1145.0	1089.7	1059.4	1045.0
1549.0	20°	1630.8	1688.9	1673.6	1522.6	1300.4	1134.0	1031.5	1001.2	995.0	998.4
1600.5	22.5°	1694.7	1746.7	1678.8	1442.7	1164.3	1005.1	948.8	949.8	963.7	973.8
1654.3	25°	1760.1	1795.2	1664.9	1327.3	1018.1	910.4	896.4	911.8	939.2	958.9
1714.9	27.5°	1823.1	1838.5	1634.6	1184.5	892.6	842.5	845.0	876.7	918.1	945.5
1788.5	30°	1894.3	1877.0	1576.4	1023.9	805.5	784.4	804.6	841.6	882.9	907.5
1881.3	32.5°	1974.6	1910.2	1484.1	875.3	744.0	737.7	770.9	794.9	813.2	820.4
2004.4	35°	2074.6	1956.8	1365.8	770.9	688.7	703.6	735.3	723.3	716.1	712.2
2169.9	37.5°	2204.5	2019.8	1227.3	703.1	643.9	679.0	692.0	654.5	626.1	612.2
2370.4	40°	2360.8	2112.1	1094.1	650.7	615.6	657.9	635.3	590.1	554.0	534.3
2595.9	42.5°	2534.4	2208.8	982.0	611.2	599.7	640.6	593.4	539.6	481.4	475.1
2864.8	45°	2716.6	2308.4	905.5	580.9	592.0	625.7	569.4	482.3	441.0	466.5
3134.6	47.5°	2898.9	2399.7	859.4	558.3	588.1	608.8	548.2	450.6	421.3	458.3
3423.6	50°	3101.9	2481.5	838.7	542.0	583.8	602.1	516.5	442.4	400.6	425.1
3722.7	52.5°	3303.4	2545.0	823.3	525.6	577.6	596.8	501.1	432.8	375.6	377.0
4023.7	55°	3504.4	2586.3	806.5	504.0	563.6	585.3	499.7	422.2	356.8	350.1
4342.1	57.5°	3718.9	2609.9	785.8	479.9	539.6	555.9	498.2	414.1	351.1	340.0
4667.7	60°	3937.2	2644.5	758.9	450.6	507.4	520.8	494.9	411.2	347.7	328.9
4974.5	62.5°	4132.9	2656.5	726.7	422.7	466.0	486.2	487.6	408.8	338.6	306.3
5229.4	65°	4261.3	2604.6	670.4	391.0	421.3	450.6	473.7	400.6	322.2	290.0
5355.4	67.5°	4256.0	2456.5	582.4	350.1	378.0	411.2	453.5	386.6	302.5	269.8
5260.2	70°	4057.9	2164.1	470.8	302.5	330.4	368.9	427.5	366.0	278.9	247.7
4677.3	72.5°	3480.3	1693.8	341.9	246.7	275.1	325.1	393.9	341.0	254.9	227.9
3456.8	75°	2486.3	1071.9	231.8	189.5	214.0	275.6	352.0	311.6	232.8	228.9
1731.3	77.5°	1270.1	512.2	153.4	138.5	149.1	217.4	295.8	278.4	236.1	189.0
492.4	80°	413.1	189.0	96.7	94.3	99.1	144.8	228.9	228.4	178.9	128.4
119.3	82.5°	131.8	81.3	63.0	60.6	58.2	90.9	159.7	180.8	120.7	81.3
42.8	85°	52.4	48.6	37.0	34.1	24.5	42.8	83.7	120.2	89.9	58.7
11.1	87.5°	19.2	19.2	10.1	7.2	5.3	14.4	22.6	36.1	51.5	30.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1310.0
1411.5
1460.0
1450.4
1377.3
1258.5
1138.8
1049.3
996.9
976.2
964.2
952.2
913.2
824.3
716.1
615.6
535.7
481.4
479.9
475.6
443.4
387.1
354.9
341.4
330.4
306.3
290.0
271.2
250.6
226.5
215.9
168.3
113.5
80.8
60.1
29.8
0.0

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